

**WHAT IS CLAIMED IS:**

*Sub A1*  
5

1. A method comprising:  
a client accessing a space service, wherein the space service is operable to store one or more service advertisements in a space, and wherein each of the service advertisements comprises information which is usable to access a corresponding service;

10 the client selecting one of the service advertisements from the space; and  
the client using the information from the selected service advertisement to execute the corresponding service.

15 2. The method of claim 1,  
wherein the client accessing the space service comprises the client sending messages to the space service at a Uniform Resource Identifier (URI).

20 3. The method of claim 1,  
*B*  
wherein the space service comprises a schema, wherein the schema specifies one or more messages usable to invoke functions of the space service.

25 4. The method of claim 3,  
wherein the schema is expressed in a data representation language.

5. The method of claim 4,

30

wherein the data representation language comprises eXtensible Markup Language (XML).

6. The method of claim 3,  
5 wherein the schema specifies messages usable to read advertisements from the space and publish advertisements in the space.

*Subj 103* 7. The method of claim 3,  
wherein the client accessing the space service comprises the client sending at least one of the messages specified in the schema to the space service.

8. The method of claim 1,  
15 wherein the client accessing the space service comprises the client searching the one or more service advertisements stored in the space.

9. The method of claim 1,  
20 wherein each of the one or more service advertisements comprises a URI at which the corresponding service may be accessed and a schema which specifies messages usable to invoke functions of the corresponding service.

25 10. The method of claim 8,  
wherein each schema is expressed in a data representation language.

11. The method of claim 10,  
30

wherein the data representation language comprises eXtensible Markup Language (XML).

12. The method of claim 1, further comprising:

5

generating results in response to the executing the corresponding service for the selected service advertisement for the client; and

10 publishing the results in a network-addressable location, wherein information usable to access the network-addressable location is provided in an advertisement for the network addressable-location.

13. The method of claim 1, further comprising:

15 the client sending an instantiation request to the space after the selecting one of the service advertisements from the space;

obtaining a lease for the corresponding service for the selected service advertisement;

20

sending the lease and the selected service advertisement to the client; and

constructing a gate for the client to access the corresponding service.

25

14. A system comprising:

a client;

30 a first service; and

100-000000000000000000

Sub 100-000000000000000000 20

1. a space service which is communicatively coupled to the client and the first service;

5 2. wherein the first service is operable to publish a service advertisement with the space service, wherein the service advertisement comprises information which is usable to access the first service;

10 3. wherein the space service is operable to store the service advertisement; and

15 4. wherein the client is operable to access the space service, select the service advertisement from the space service, and use the information from the service advertisement to execute the first service.

15. The system of claim 14,

15 5. wherein the space service comprises a schema, wherein the schema specifies one or more messages usable to invoke functions of the space service.

16. The system of claim 15,

20 6. wherein the client is operable to access the space service by sending the one or more messages to the space service at a URI.

25 7. The system of claim 15,

8. wherein the schema is expressed in a data representation language.

30 9. The system of claim 17,

10. wherein the data representation language comprises eXtensible Markup Language (XML).

00000000000000000000000000000000

*Sub B5*

19. The system of claim 15,  
5 wherein the schema specifies messages usable to read advertisements from the space service and publish advertisements in the space service.
20. The system of claim 14,  
10 wherein the client is operable to search a plurality of advertisements stored in the space.
21. The system of claim 14,  
15 wherein the service advertisement comprises a URI at which the first service may be accessed and a schema which specifies messages usable to invoke functions of the first service.
22. The system of claim 21,  
20 wherein the schema is expressed in a data representation language.
23. The system of claim 22,  
25 wherein the data representation language comprises eXtensible Markup Language (XML).
24. The system of claim 14,  
30 wherein the first service is operable to generate results in response to the client accessing the first service using the service advertisement; and

wherein the space service is operable to store the results in a network-addressable location, wherein information usable to access the network-addressable location is provided in an advertisement for the network addressable-location.

5

25. The system of claim 14,

wherein the space service is operable to obtain a lease for the first service and send the lease and the service advertisement to the client; and

10

wherein the client is operable to construct a gate for the client to access the first service using the lease and the service advertisement sent by the space service.

26. A carrier medium comprising program instructions which are computer-executable to implement:

20

a client accessing a space service, wherein the space service is operable to store one or more service advertisements in a space, and wherein each of the service advertisements comprises information which is usable to access a corresponding service;

the client selecting one of the service advertisements from the space; and

25

the client using the information from the selected service advertisement to execute the corresponding service.

27. The carrier medium of claim 26,

wherein in the client accessing the space service, the program instructions are further computer-executable to implement the client sending messages to the space service at a URI.

5 28. The carrier medium of claim 26,

wherein the space service *B* comprises a schema, wherein the schema specifies one or more messages usable to invoke functions of the space service.

10 29. The carrier medium of claim 26,

wherein the schema is expressed in a data representation language.

15 30. The carrier medium of claim 29,

wherein the data representation language comprises eXtensible Markup Language (XML).

20 31. The carrier medium of claim 26,

wherein the schema *B* specifies messages usable to read advertisements from the space and publish advertisements in the space.

25 32. The carrier medium of claim 26,

wherein in the client accessing the space service, the program instructions are further computer-executable to implement the client sending at least one of the messages specified in the schema to the space service.

30 33. The carrier medium of claim 26,

wherein in the client accessing the space service, the program instructions are further computer-executable to implement the client searching the one or more service advertisements stored in the space.

5 34. The carrier medium of claim 26,

wherein each of the one or more service advertisements comprises a URI at which the corresponding service may be accessed and a schema which specifies messages usable to invoke functions of the corresponding service.

10

35. The carrier medium of claim 34,

wherein each schema is expressed in a data representation language.

15 36. The carrier medium of claim 35,

wherein the data representation language comprises eXtensible Markup Language (XML).

20 37. The carrier medium of claim 26, wherein the program instructions are further computer-executable to implement:

generating results in response to the executing the corresponding service for the selected service advertisement for the client; and

25

publishing the results in a network-addressable location, wherein information usable to access the network-addressable location is provided in an advertisement for the network addressable-location.

30 38. The carrier medium of claim 26, wherein the program instructions are further computer-executable to implement:

the client sending an instantiation request to the space after the selecting one of the service advertisements from the space;

5 obtaining a lease for the corresponding service for the selected service  
advertisement;

sending the lease and the selected service advertisement to the client; and

10 constructing a gate for the client to access the corresponding service.

**39. A method comprising:**

15 storing a set of information in a space by sending at least one message specified in  
a schema for the space, wherein the schema specifies a plurality of  
messages usable to invoke functions of the space, wherein the set of  
information is expressed in a data representation language, and wherein  
the space is addressable at a Uniform Resource Identifier (URI);

20 a client locating the space at the URI;

the client retrieving the set of information expressed in the data representation language from the space by sending at least one of the messages specified in the schema for the space.

25

#### 40. The method of claim 39.

wherein the data representation language comprises eXtensible Markup Language (XML).

30

#### 41. The method of claim 39.

wherein the space comprises one or more web pages which are viewable by a web browser.

5 42. The method of claim 39,

wherein the schema is expressed in the data representation language.

10 43. A system comprising:

a space which is operable to store a set of information expressed in a data representation language, wherein the space is addressable at a Uniform Resource Identifier (URI), and wherein the space comprises a schema which specifies one or more messages usable to invoke functions of the

15 space; and

a client which is communicatively coupled to the space, wherein the client is operable to:

20 locate the space at the URI; and

retrieve the set of information expressed in the data representation language from the space by sending at least one of the messages specified in the schema for the space.

25

44. The system of claim 43,

wherein the data representation language comprises eXtensible Markup Language (XML).

30

45. The system of claim 43, further comprising:

0965363471083460

a web browser which is operable to display web pages;

wherein the space comprises one or more web pages which are configured to be  
5 displayed by the web browser.

46. The system of claim 43,  
wherein the schema is expressed in the data representation language.  
10

47. A carrier medium comprising program instructions which are computer-executable to implement:  
15  
storing a set of information in a space by sending at least one message specified in  
a schema for the space, wherein the schema specifies a plurality of  
messages usable to invoke functions of the space, wherein the set of  
information is expressed in a data representation language, and wherein  
the space is addressable at a Uniform Resource Identifier (URI);  
20  
a client locating the space at the URI;  
the client retrieving the set of information expressed in the data representation  
language from the space by sending at least one of the messages specified  
in the schema for the space.  
25

48. The carrier medium of claim 47,  
wherein the data representation language comprises eXtensible Markup Language  
(XML).  
30

49. The carrier medium of claim 47,

wherein the space comprises one or more web pages which are viewable by a web browser.

5 50. The carrier medium of claim 47,

wherein the schema is expressed in the data representation language.